What is claimed is:

1	1	A method	for	correcting	frequency	offset o	of	a local
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- 2 oscillator in a direct sequence spread spectrum receiver wherein
- 3 received signals include a plurality of sequential slots of data,
- 4 at least one of which includes synchronization data, said method
- 5 comprising the steps of:
- 6 performing a first correlation between said received data
- 7 and a locally stored synchronization code;
- 8 adjusting the phase of said received data by a predetermined
- 9 phase step;
- performing a second correlation between said phase adjusted
- 11 data and said stored synchronization code;
- determining which of said first and second correlations
- 13 gives the largest correlation peak;
- storing a signal corresponding to said largest correlation
- 15 peak;
- estimating the phase offset to be applied to said local
- 17 oscillator from said signal; and
- applying said estimated offset to said local oscillator.
- 1 2. The method according to claim 1 further comprising
- 2 the step of repeatedly adjusting the phase of said received data
- 3 by the same predetermined phase step after storage of said signal
- 4 corresponding to said largest correlation peak a predetermined
- 5 number of times before applying said offset to said local
- 6 oscillator.
- 1 3. The method according to claim 2 further comprising

- 2 the step of repeating said adjusting step in the event that each
- 3 adjustment of the phase results in an improvement in said largest
- 4 correlation peak.
- 1 4. An apparatus for correcting frequency offset of a
- 2 local oscillator in a direct sequence spread spectrum receiver
- 3 wherein received signals include a plurality of sequential slots
- 4 of data, at least one of which includes synchronization data, said
- 5 apparatus comprising:
- 6 means for performing a first correlation between said
- 7 received data and a locally stored synchronization code;
- 8 means for adjusting the phase of said received data by a
- 9 predetermined phase step;
- means for performing a second correlation between said
- 11 phase adjusted data and said stored synchronization code;
- means for determining the largest correlation peak in each
- 13 of said first and second correlations;
- means for storing a signal corresponding to said largest
- 15 correlation peak;
- means for estimating the phase offset to be applied to said
- 17 local oscillator from said signal; and
- means for applying said estimated offset to said local
- 19 oscillator.
- 1 5. The apparatus according to claim 4 further comprising
- 2 means for repeatedly adjusting the phase of said received data
- 3 by the same predetermined phase step after storage of said signal
- 4 corresponding to said largest correlation peak a predetermined
- 5 number of times before applying said offset to said local

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- 6 oscillator.
- 1 6. The apparatus according to claim 5 further comprising
- 2 means for causing said means for repeatedly adjusting the phase
- 3 of said received data to repeat all its repetitions in the event
- 4 that each adjustment of the phase results in an improvement in
- 5 said largest correlation peak.
- 7. The apparatus according to claim 6 wherein said
- 2 direct sequence spread spectrum receiver includes at least a
- 3 telephone and a mobile telephone.
- 1 8. A storage medium storing a control program to cause
- 2 a computer to carry out a method for correcting frequency offset
- 3 of a local oscillator in a direct sequence spread spectrum
- 4 receiver wherein received signals include a plurality of
- 5 sequential slots of data, at least one of which includes
- 6 synchronization data, said method comprising the steps of:
- 7 performing a first correlation between said received data
- 8 and a locally stored synchronization code;
- adjusting the phase of said received data by a predetermined
- 10 phase step;
- 11 performing a second correlation between said phase adjusted
- 12 data and said stored synchronization code;
- 13 determining which of said first and second correlations
- 14 gives the largest correlation peak;
- 15 storing a signal corresponding to said largest correlation
- 16 peak;
- estimating the phase offset to be applied to said local

- 18 oscillator from said signal; and
- applying said estimated offset to said local oscillator.